

PREFACE

INDEX TO PUBLICATIONS

OF THE

Division of Laboratories and Research

NEW YORK STATE DEPARTMENT OF HEALTH

1914-1944

AUGUSTUS B. WADSWORTH, M.D., Director



ALBANY

1945

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PREFACE

The period covered by this Index to the publications of the Division of Laboratories and Research, is a significant one in the history of the development of public health laboratory service. It is especially important in the history of the New York State Department of Health. The Department was reorganized in 1914 under the new Public Health Law. The Division of Laboratories and Research was established, as such, in this reorganization. In the succeeding years, aids in the diagnosis and treatment of disease and in the control of sanitation were inaugurated and perfected; a state-wide system of approved laboratories was introduced, which, in thirty years, has become a unified service that has been strengthened and given added stability through the development of the New York State Association of Public Health Laboratories. Decentralization to county, municipal, or private laboratories united by a common adherence to minimum standards established by the central state laboratory, but with full local autonomy, was a pioneer movement of New York State. It had its initial impetus in the administration of Dr. Hermann M. Biggs, Commissioner of Health from 1914 to 1923; and has been developed with the substantial support of succeeding commissioners, Dr. Matthias Nicoll, Jr., Dr. Thomas Parran, Jr., and Dr. Edward S. Godfrey, Jr.

In 1930 Governor Franklin D. Roosevelt appointed a Commission to examine critically the extent to which the health needs of the people were being met, since "as an agency for serving the needs of the people, government should not be a static force but should evolve to meet the changing and developing body of knowledge." The report of the Commission affirmed the general policies and administration of the Department and implemented its survey with recommendations for further development. In a Foreword to the report Governor Roosevelt wrote:

"It is my hope that many citizens of New York will read this report of the State Health Commission. I think they will find, as I have found, that it is vastly informative; that its recommendations are eminently practical; and that the path it points out is plain and easy to follow.

"The rewards of following this plan will redound to ourselves as individuals, no less than to the prosperity and progress of the State. No considerations are involved other than to prevent needless death and suffering for the people and needless social and economic loss for the State. We have gone far enough in the right direction to be assured that we can finish the job. The tools for it are designated and the methods outlined here."

The "tools" for the furtherance of laboratory service are described in the report of the Committee on Laboratories, of which Dr. Simon Flexner was chairman; and their application is indicated in specific recommendations. In particular, the obligation of academic and investigative research, implicit in

the organization of the state laboratory, is stressed as the basis for making these recommendations effective:

"... to overlook [no] opportunities to add to scientific knowledge through an inquiring attitude of mind, a scientific outlook, a zest for truth, a patience for experiment, and a capacity for logical deduction.

"Many accepted procedures in public health have only an empirical basis or are the outgrowth of tradition. Others have a solid foundation in scientific fact. It is in the first group that study, appraisal, comparison, experiment and tests of new methods will enable more efficient methods to be developed."

This attitude of research has affected directly and indirectly the character of all the services rendered by the staff of the laboratory. The research and experimentation of other investigators have been applied to the problems in New York State. Conversely, the scientific contributions and improvements in methods from this laboratory have been made available for other states and countries through the accredited journals of scientific medicine.

The publications of the Division of Laboratories and Research range from brief announcements in the Department's *Health News* on matters of policy or practical administrative detail, to research and investigation in the fundamental aspects of infection and immunity, which underlie the work of the Division as a whole. Reprints of most of these studies were available at the time of publication, and eleven volumes of Collected Studies have been assembled since 1914. Other publications, however, could not be procured in reprinted form and thus are not represented in the Collected Studies; nor are certain investigations that were reported only in abstract, in society proceedings, or in the annual reports of the Division. Articles of this character and selected items from the annual reports are thus for the first time presented by author and subject in the assembled works of the Division. This Index, prepared under the direction of the librarian, is thus not only an interim departmental report; it is also an important bibliographic contribution to the literature of public health laboratory service and research.

AUGUSTUS B. WADSWORTH

January, 1945

Explanatory Notes

The Annual Report of the Division of Laboratories and Research has been issued as a separate publication since 1934; from 1915 until it is published in the general report of the Department of Health only in an abbreviated form. References in the period 1911-1934, therefore, are to the volume number of the general Annual Report of the New York State Department of Health; from 1934, to the number of the report of the Division. Citations of the weekly publication of the New York State Department of Health.

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When an article has been published in more than one form, as is often the case in the Annual Report or in society proceedings, and in condensed form in a journal, that publication is cited. This practice was adopted to present a complete record and to facilitate reference when not all sources may be available to a given library or institute. Entries for publications that are issued weekly list the latest edition and usually show the frequency of publication, or date of first issue.

Roman numerals at the right margin indicate the volume of Collected Studies in which a report is included. The first reference listed in a series is in the margin in the Studies. Because the first three volumes of Studies were not published at the time of publication of the data are also cited as I, 1911-1913.

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When an article has been published in more than one form, as in abstract in the Annual Report or in society proceedings, and in complete form in a journal, each publication is cited. This practice was adopted to present a complete record and to facilitate reference, since not all sources may be available in a given library or institute. Entries for publications that are issued serially list the latest edition and usually note also frequency of publication or date of first issue.

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- , — — type-1 pneumococcus culture broth on the protective action of type-1 antiserum (SICKLES, G. M., *J. Infect. Dis.*, 1927, **40**, 369) **IV**
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- , type 8, production (HENDRY, *Ann. Rep.*, 1934, p.33)
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- , amino acid inhibition of copper proteinate formation (QUIGLEY and MURASCHI, *J. Biol. Chem.*, 1945, **158**, 463) **XI**
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- , — with sulfanilamide in type-3 pneumococcus infections in mice (MILLER, *J. Bact. (Soc. Proc.)*, 1938, **36**, 219) **IX**
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- , reactive proportions of antigen and antiserum in precipitation and complement fixation (RICE, *J. Immunol.*, 1943, **46**, 427; *Ann. Rep.*, 1942, p. 10; 1943, p. 10) **XI**
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—, pneumococcus and nonhemolytic streptococci, maximum limits of viability (SICKLES, G. M., *J. Bact. (Soc. Proc.)*, 1932, 23, 86)

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—, substitution of heated asparagine glutamate mixture for nicotinamide as a growth factor (BOVARNICK, M. R., *J. Biol. Chem.*, 1943, 148, 151; *Ann. Rep.*, 1942, p.43; 1943, p.45)

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—, thermal limits of growth of *Br. abortus* and allied strains on serum agar (SICKLES, G. M., *Ann. Rep.*, 1929, 50, 51)

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Soil. See Soil microorganisms

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See also Names of specific microorganisms, e.g. *Corynebacterium diphtheriae*

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List, giving name of species, accession number, history, source, and date added (COFFEY, *Ann. Rep.*, 1929, 50, 95; 1930, 51, 112; 1931, 52, 109; 1932, 53, 129; 1937, p.75)

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Bacteriology:

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Importance in agglutination tests (GILBERT and GROESBECK, *Amer. J. Pub. Health*, 1925, **15**, 359; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1924, no. **2**, 11)

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Effect of bile, sodium salts of bile acids on (KLINE, *Proc. Soc. Exp. Biol. and Med.*, 1927, **24**, 735) **IV**

In old stock cultures (KLINE, *J. Lab. and Clin. Med.*, 1927, **12**, 1074; *Amer. J. Path. (Sci. Proc.)*, 1927, **3**, 561) **IV**

Typing of *Bact. typhosum* by (*Ann. Rep.*, 1941, p.58; 1942, p.52)

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Bacterium alkalescens (Andrews):

Variant of *Bact. typhosum* (GILBERT and COLEMAN, *Amer. J. Pub. Health*, 1934, **24**, 449; *Amer. J. Path. (Sci. Proc.)*, 1933, **9**, 940; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1933, no. **2**, 2; *Ann. Rep.*, 1932, **53**, 101; 1933, **54**, 82; 1934, p. 50) **VII**

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Food poisoning due to toxic sub-

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stances formed by strains of cloacae-aerogenes group (GILBERT, COLEMAN, and LAVIANO, *Amer. J. Pub. Health*, 1932, **22**, 721) **VII**

Bacterium coli:

Comparative study of 100-ml. and 10-ml. volumes of water in test for coliform group (GILGREAS, *Ann. Rep.*, 1937, p.58; 1938, p.44; 1939, p.58)

Effect of sulfanilamide on growth in collodion sacs *in vitro* (HARRIS, *J. Bact.*, 1943, **45**, 147; *Ibid.*, (*Soc. Proc.*), 1942, **43**, 775; *Ann. Rep.*, 1941, p.57) **X, XI**

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See also Dysentery; Enteric diseases; Media

Bacterium dysenteriae (Dudgeon-Urquhart):

Isolation of, in an outbreak of diarrhea (HAZEN, *J. Infect. Dis.*, 1938, **63**, 330; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1938, no. 2, 29; *Health News*, 1939, p.4) **IX**

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Incitant in outbreak of enteric disease (SCHLEIFSTEIN and COLEMAN, *J. Infect. Dis.*, 1937, **61**, 257; *J. Bact. (Soc. Proc.)*, 1937, **33**, 111; *Ann. Rep.*, 1936, p.34; 1937, p.46) **IX**

Bacterium dysenteriae (Shiga):

Case of dysentery incited by (*Ann. Rep.*, 1940, p.45)

Bacterium dysenteriae (Sonne):

Cases of dysentery in New York State attributed to (GILBERT and COLEMAN, *Amer. J. Pub. Health*, 1929, **19**, 312; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1928, no. 2, 7; *Ann. Rep.*, 1928, **49**, 52) **V**

Bacterium enterocoliticum:

Identification of new species (SCHLEIFSTEIN and COLEMAN, *Ann. Rep.*, 1943, p.56)

Bacterium para-Shiga:

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Bacterium tularense:

Cross agglutination with *Br. abortus* in 5000 specimens (GILBERT and COLEMAN, *Amer. J. Pub. Health*, 1932, **22**, 1249; *Ann. Rep.*, 1930, **51**, 68; 1931, **52**, 58) **VII**

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Laboratory infection with (MAILLARD, *N. Y. State J. Med.*, 1933, **33**, 751) **VII**

See also Tularemia

Bacterium typhosum:

Agglutinability of different strains compared (ODELL, *Ann. Rep.*, 1915, **36**, v.3, 282)

—, test for Vi agglutinative properties (COLEMAN, *Amer. J. Pub. Health*, 1942, **32**, 843; *Ann. Rep.*, 1940, p.44; 1941, p.58; 1942, p.51) **X**

Agglutination, granular and floccular (GILBERT, COLEMAN, and LAVIANO, *J. Lab. and Clin. Med.*, 1933, **19**, 225; *J. Bact. (Soc. Proc.)*, 1932, **23**, 110; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1932, no. 2, 6; *Health News*, 1934, p.22; *Ann. Rep.*, 1930, **51**, 66; 1931, **52**, 53; 1932, **53**, 100; 1933, **54**, 80) **VII**

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bers of N. Y. State Association of Public Health Laboratories; final report (GILBERT, N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1933, no. 1, 5)

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Carriers, detection of (GILBERT, STEWART, F. C., and OWEN, *Amer. J. Pub. Health*, 1925, **15**, 883) **IV**

—, impracticability of controlling enteric disease by indiscriminate collection of specimens (GILBERT and COLEMAN, *Amer. J. Pub. Health*, 1934, **24**, 192; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1933, no. 2, 2; *Health News*, 1934, p.111) **VII**

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—, study of growth in different bile media (DAVIS, *Ann. Rep.*, 1915, **36**, v.3, 295)

“Smooth” and “rough” forms in relation to vaccination and immunity in typhoid fever (MALTANER, F., *J. Immunol.*, 1934, **26**, 161; *Ann. Rep.*, 1933, **54**, 54)

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Bacteriologic study of pollution of water (SANDERSON, N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1943, no. **2**, 44)

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agents; 2d ed. N. Y., Amer. Pub. Health Assoc., 1945, p.247) **V**

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Action on pneumococci (KOZLOWSKI, *J. Exp. Med.*, 1925, **42**, 453)

IV**Biologic products:**

See Names of specific products, e.g. Antipneumococcus sera; Antistreptococcus serum

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Coagulation, abnormalities during prolonged immunization of rabbits with the pneumococcus (*Ann. Rep.*, 1939, p.11)

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- Coagulation, chemical reactions, activity of lecithin (WADSWORTH, MALTANER, F., and MALTANER, E. J., *Amer. J. Physiol.*, 1930, **91**, 423) **V**
- , — — underlying the process (WADSWORTH, MALTANER, F., and MALTANER, E. J., *Amer. J. Physiol.*, 1927, **80**, 502) **IV**
- , chemistry (MALTANER, F., and MALTANER, E. J., *Amer. J. Path. (Sci. Proc.)*, 1926, **2**, 450)
- , conglutination phenomenon (MALTANER, F., and JOHNSTON, *J. Immunol.*, 1921, **6**, 349) **II**, 1920–1923
- , in vitamin-K-deficient chicks (MALTANER, F., and MALTANER, E. J., *Arch. Biochem.*, 1943, **2**, 37; *Ann. Rep.*, 1941, p.17) **XI**
- , inhibition of complementary activity by anticoagulants (WADSWORTH, MALTANER, F., and MALTANER, E. J., *J. Immunol.*, 1937, **33**, 297; *Ann. Rep.*, 1937, p.13) **IX**
- , preliminary observations (WADSWORTH, *Ann. Rep.*, 1941, p.19)
- , relation of cephalin (WADSWORTH, MALTANER, F., and MALTANER, E. J., *J. Immunol.*, 1936, **30**, 417; *Ibid.*, (*Soc. Proc.*), 1934, **26**, 333, 339; *Ann. Rep.*, 1933, **54**, 52; 1934, p.22; 1935, p.15) **VIII**
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- — —, lipids in horse serum (HYMAN, *J. Immunol.*, 1938, **35**, 71) **IX**
- — —, phospholipids and cholesterol in plasma of immunized horses (WADSWORTH and HYMAN, *J. Immunol.*, 1938, **35**, 55; *Ann. Rep.*, 1934, p.23; 1935, p.23) **IX**
- Infectious anemia, study of abnormal blood cells of horses with in-

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- Outfits for submission of specimens, descriptions and specifications (DIVISION OF LABORATORIES AND RESEARCH. Laboratory manual for physicians; 8th ed. Published by the Division, 1944, p.65; WADSWORTH. Standard methods of the Division of Laboratories and Research of the New York State Department of Health; 2d ed. Baltimore, Williams and Wilkins, 1939, p.614, 619, 626, 628, 630)
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- See also* Complement-fixation tests; Erythrocytes; Leucocytes; Sodium citrate solution
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- Botulinus:**
- Antitoxic sera, administration, directions enclosed with each preparation, currently revised (DIVISION OF LABORATORIES AND RESEARCH. Laboratory manual for physicians; 8th ed. Published by the Division, 1944, p.34)
- — —, production, standardization, and preparation for distribution (WADSWORTH. Standard methods of the Division of Laboratories and Research of the New York State Department of Health; 2d ed. Baltimore, Williams and Wilkins, 1939, p.411)
- — —, type B, production of (*Ann. Rep.*, 1930, **51**, 84)
- — —, types A and B, production (WHEELER, *J. Immunol.*, 1923, **8**, 501) **III**, 1923–1925

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—, — — vitamin-C content of adrenals of guinea pigs (TORRANCE, *J. Bact. (Soc. Proc.)*, 1937, **33**, 645; *Ann. Rep.*, 1937, p.33)

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See also Botulism; *Clostridium botulinum*

Botulism:

From cheese (NEVIN, *J. Infect. Dis.*, 1921, **28**, 226; *Ann. Rep.*, 1915, **36**, v.3, 306) **II**, 1920–1923

Strain of *Cl. botulinum* from canned fish not classified as type A, B, or C (HAZEN, *J. Infect. Dis.*, 1937, **60**, 260; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1936, no. 1, 8; *Ann. Rep.*, 1935, p.61) **IX**

Strains of *Cl. botulinum*, from canned and smoked fish, identified as type E (HAZEN, *Science*, 1938, **87**, 413; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1938, no. 1, 10; *Health News*, 1938, p.162) **IX**

— — — type E, action of toxins in chickens (HAZEN, *Proc. Soc. Exp. Biol. and Med.*, 1942, **50**, 112; *Ann. Rep.*, 1941, p.69) **X**

See also Botulinus; *Clostridium botulinum*

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Action on diphtheria and tetanus toxins (WADSWORTH and VORIES,

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J. Immunol., 1921, **6**, 413)

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Intracranial teratoma in a rabbit (SCHLEIFSTEIN, *Ann. Rep.*, 1938, p.35)

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Bromthymol blue:

Field test for bovine mastitis (HALLINAN, N. Y. State Assoc. Milk Sanit. *Ann. Rep.*, 1943, **17**, 121; *Ann. Rep.*, 1943, p.80) **XI**

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Agglutination, cross agglutination with *Bact. tularensis* in 5000 specimens (GILBERT and COLEMAN, *Amer. J. Pub. Health*, 1932, **22**, 1249; *Ann. Rep.*, 1930, **51**, 68; 1931, **52**, 58) **VII**

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Intracutaneous reactions in guinea pigs inoculated with *Br. abortus* (DACEY and KOROVIN, *J. Lab. and Clin. Med.*, 1934, **19**, 589)

VII

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X**C****Calcium:**

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VI**Calcium phosphate:**

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Micromethod for the isolation of substances from mixtures (CROWE, *Ind. and Eng. Chem. Analyt. ed.*, 1941, **13**, 845; *Ann. Rep.*, 1940, p.17) **X**

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— solutions obtained by passing cardiolipin through a chromatograph (CROWE and WALKER, *J. Opt. Soc. Amer. (Soc. Proc.)* In press)

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Duponol:

Effect on rabies virus (McCLURE, *J. Bact. (Soc. Proc.)*, 1942, **43**, 409; *Ann. Rep.*, 1941, p.57) **X**

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Identification, laboratory aids in the diagnosis of enteric diseases (HARRIS and COLEMAN, *N. Y. State J. Med.*, 1941, 41, 1444) **X**

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See also Epizootology; Food—Poisoning; and names of communicable diseases, e.g. Meningitis; Polio-myelitis

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See Diagnostic examinations; Laboratories—Examinations; and subdivision Examination under specific subjects; e.g. Milk—Examination

F**Farm:**

Buildings at laboratory farm occupied from 1914 to 1930. Woodcut by Clare Leighton (*Ann. Rep.*, 1939, p.30)

Inventory of buildings (*Ann. Rep.*, 1941, p.32)

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Action on carbohydrates of pneumococci in study of relationships between types 1, 2, 3, 5, 7, and 8 (SICKLES, G. M., *Ann. Rep.*, 1937, p.9; 1938, p.10; 1939, p.13; 1940, p.9)

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Examined in investigation of poliomyelitis (*Ann. Rep.*, 1931, **52**, 69)

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In microscopic detection of acid-fast bacilli (HARRIS and CLARK, M. E., *Ann. Rep.*, 1942, p.54)

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Ground glass in food (WACHTER, *Health News*, 1918, p.132)

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Poisoning, due to cream-filled pastries (GILCREAS and COLEMAN, *Amer. J. Pub. Health*, 1941, **31**, 956) **X**

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Germicides:

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Preparation, laboratory procedures (WADSWORTH. Standard methods of the Division of Laboratories and Research of the New York State Department of Health; 2d ed. Baltimore, Williams and Wilkins, 1939. 681p. First edition, 1927)

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Glutamic acid:

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Substitution of asparagine-glutamate mixture for nicotinamide as a growth factor for microorganisms (BOVARNICK, M. R., *J. Biol. Chem.*, 1943, **148**, 151; *Ann. Rep.*, 1942, p.43; 1943, p.45) **XI**

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See *Neisseria gonorrhoeae*

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Failure to find gonococci does not exclude gonorrhea (*Health News*, 1939, p.102)

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- Lactose:**
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VIII

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- Determination in small amounts in organic samples (ECKERT, *Ind. and Eng. Chem. Analyt. ed.*, 1943, **15**, 406) **XI**

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See also Phosphatase test

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See Division of Laboratories and Research—Mobile laboratory units

Monilia:

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From sputum (GILBERT and GROESBECK, *Amer. J. Pub. Health*, 1930, **20**, 1; *N. Y. State Assoc. Pub. Health Labs. Proc.*, 1927, no. **2**, 4; *Ann. Rep.*, 1927, **48**, 62; 1928, **49**, 54; 1929, **50**, 64) **V**

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Clinical syndrome after inoculation of stool from cases and contacts of poliomyelitis (McCLURE, *Science*, 1941, **94**, 307, 386; *Ann. Rep.*, 1941, p.56) **X**

Hydatid disease in rhesus monkey, case report (TORRANCE, *Ann. Rep.*, 1937, p.34)

Pulmonary acariasis in the monkey, *Pneumonyssus griffithi* Newst identified (SCHLEIFSTEIN, *Ann. Rep.*, 1938, p.37; 1940, p.53)

Study of sensory ganglia in *Macaca mulatta* after gastro-intestinal administration of poliomyelitis virus (McCLURE, *Amer. J. Path.*, 1943, **19**, 655; *Ann. Rep.*, 1942, p.47) **XI**

Mononucleosis:

Infectious, blood films found to contain as high as 83 per cent of mononuclear cells (*Ann. Rep.*, 1939, p.46)

Laboratory findings in (GILBERT and COLEMAN, *Amer. J. Hyg.*, 1925, **5**, 35; *N. Y. State Assoc. Pub. Health Labs. Proc.*, 1924, no. **2**, 3) **III**, 1923-1925

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In standardization of antipneumococcus horse sera other than type 1 (HENDRY, *Ann. Rep.*, 1938, p.20)

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II, 1920-1923

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Source of tularemia in man (*Health News*, 1939, p.97; 1942, p.109)

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Detection by fluorescence microscopy (HARRIS and CLARK, M. E., *Ann. Rep.*, 1942, p.54)

Mycobacterium tuberculosis—Cont'd

Media for primary isolation from pathologic material (ALEXANDER-JACKSON, *Amer. Rev. Tuberc.*, 1941, **43**, 441) **X**

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Air raid precautions (*Ann. Rep.*, 1942, p.23, 29, 80)

Bacterial collection, protection against sabotage (*Ann. Rep.*, 1942, p.23) Inventory of laboratory equipment and apparatus and installation of flood lights and fire sirens (*Ann. Rep.*, 1941, p.32)

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Questionnaires as a means of securing data on laboratory facili-

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ties and trained personnel in New York State (*Ann. Rep.*, 1940, p.40; 1941, p.6)

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Antigens in quantitative complement-fixation tests (RICE, *Amer. Assoc. Adv. Sci. The gonococcus and gonococcal infection*. Lancaster, Pa., Science Press, 1939, p.64. Publication no. **11**; *J. Bact. (Soc. Proc.)*, 1938, **35**, 337; *Ibid.*, (*Soc. Proc.*), 1937, **33**, 644; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1938, no. **1**, 1; *Ann. Rep.*, 1939, p.12; 1941, p.11) **X**

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Bacteriemia in horses, chemother-

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 apy (MILLER, COHEN, and GRIFFIN, *Ann. Rep.*, 1942, p.44)
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 — —, study of strains in carriers and cases in relation to sulfonamide treatment (COHEN and MILLER, N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1942, **no. 1**, 6, 7; *Ann. Rep.*, 1942, p.28, 33, 44)
 Carbohydrate and protein fractions tested for precipitation with immune sera (BROWN, R. F., *Ann. Rep.*, 1933, **54**, 43)
 Classification (WADSWORTH, GILBERT, and HUTTON, *J. Exp. Med.*, 1921, **33**, 99) **II**, 1920–1923
 —, comparative tests of State and National Institute of Health antimeningococcus rabbit agglutinating sera (COHEN, *Ann. Rep.*, 1941, p.45)
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 —, methods for (HEMSATH, N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1928, **no. 2**, 13)
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See also Antimeningococcus serum; Cerebrospinal fluid; Media; Meningitis
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Nephelometers and nephelometry:
 Nephelometer-colorimeter (KOBER, *J. Biol. Chem.*, 1917, **29**, 155) **I**, 1914–1919
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Doctor Kirkbride honored by the Association with medal in recognition of service to the organization (*Health News*, 1935, p. 185)

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— — — — — substance in a heated asparagine-glutamate mixture (BOVARNICK, M. R., *J. Biol. Chem.*, 1943, **149**, 301) **XI**

Identified as substance formed from heated asparagine-glutamate mixture (BOVARNICK, M. R., *J. Biol. Chem.*, 1944, **153**, 1) **XI**

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p-Nitrobenzoic acid:

Determination in blood (ECKERT, *J. Biol. Chem.*, 1943, **148**, 197) **XI**

Toxicity, absorption, and excretion in mice and rabbits (MILLER, *Ann. Rep.*, 1940, p.9)

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Determination, efficiency of the aeration method for distilling ammonia (KOBEL, *J. Amer. Chem. Soc.*, 1916, **38**, 2568) **I**, 1914–1919

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Optochin: **O**

Adaptation of pneumococci to (JUNGBLUT, *J. Infect. Dis.*, 1927, **41**, 345; *Ann. Rep.*, 1924, **45**, 46) **IV**

Organization:

See Division of Laboratories and Research—Organization; Laboratories—Organization

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Chemotactic effect upon leucocytes (MALTANER, F., and HOPPE, *J. Hyg.*, 1921, **19**, 309; *Proc. Soc. Exp. Biol. and Med.*, 1920, **17**, 216) **II**, 1920-1923

See also Collodion sacs; Dialysis; Membranes

Outbreaks:

See Epidemiology; Epizootology; Food—Poisoning; and names of communicable diseases, e.g. Meningitis; Poliomyelitis

Outfits:

Address labels changed from identifying colored paper to white paper with printing in colored ink (*Health News*, 1943, p.216)

Description and specifications of outfits distributed (DIVISION OF LABORATORIES AND RESEARCH. Laboratory manual for physicians; 8th ed. Published by the Division, 1944, p.11; WADSWORTH. Standard methods of the Division of Laboratories and Research of the New York State Department of Health; 2d ed. Baltimore, Williams and Wilkins, 1939, p.610)

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Outfits—Continued

—, field kit for studies of stream pollution. Photograph (*Ann. Rep.*, 1941, p.71, 73)

See also subdivision Outfits under names of diseases, e.g. Diphtheria—Outfits

Oxidation-reduction potential:

Of skin, determination (TORRANCE, *J. Bact. (Soc. Proc.)*, 1938, **35**, 339; *Ann. Rep.*, 1937, p.34)

— —, inflammatory lesions in guinea pigs induced by diphtheria toxin (TORRANCE, *Proc. Soc. Exp. Biol. and Med.*, 1940, **45**, 741) **X**

— — guinea pigs on a scorbutogenic diet (TORRANCE, *J. Bact. (Soc. Proc.)*, 1939, **38**, 240; *Ann. Rep.*, 1939, p.28) **X**

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Dissolved, colorimetric determination in water and sewage (GILCREAS, *J. Amer. Water Works Assoc.*, 1935, **27**, 1166; *Ann. Rep.*, 1935, p.65) **VIII**

—, effect on corrosive action of ground waters of Long Island (GILCREAS, *J. New England Water Works Assoc.*, 1937, **51**, 380; *Ann. Rep.*, 1937, p.60) **IX**

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Laboratory aspects of oyster pollution (WACHTER, *Amer. J. Pub. Health*, 1925, **15**, 1066; *Ann. Rep.*, 1925, **46**, 39) **IV**

P**Paramecium caudatum:**

Effect of diphtheria toxin on (SICKLES, G. M., and SHAW, *J. Bact. (Soc. Proc.)*, 1936, **31**, 73; *Ann. Rep.*, 1935, p.7)

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Cheyletiella parasitivorax Mégnin on rabbit (*Ann. Rep.*, 1942, p.37)

Demodex caprae in goats (GRIFFIN and DEAN, *Cornell Vet.*, 1944, **34**, 308) **XI**

Laboratory aids in the diagnosis of enteric diseases (HARRIS and

Parasites—Continued

COLEMAN, N. Y. *State J. Med.*, 1941, **41**, 1444) **X**

Pulmonary acariasis in the monkey, *Pneumonyssus griffithi* Newst identified (*Ann. Rep.*, 1938, p.37; 1940, p.53)

See also Helminths; *Trichomonas vaginalis*

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Agglutination test, macroscopic (*Ann. Rep.*, 1933, **54**, 81)

Agglutinins in specimens from typhoid fever (GILBERT and GROESBECK, *J. Lab. and Clin. Med.*, 1925, **10**, 282; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1924, no. **1**, 5) **III**, 1923–1925

Diagnosis, plating media in isolation of incitants of enteric fevers; referee report for 1937 (COLEMAN, *Amer. J. Pub. Health (supp. Year Book)*, 1938, **28**, 111; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1937, no. **2**, 19; Diagnostic procedures and reagents; 2d ed. N. Y., Amer. Pub. Health Assoc., 1945, p.247) **IX**

Laboratory service in epidemic among troops (WADSWORTH, N. Y. *State J. Med.*, 1917, **17**, 506; *Health News*, 1917, p.239; *Ann. Rep.*, 1916, **37**, 115) **I**, 1914–1919

See also Enteric diseases; *Salmonella paratyphi*

Paratyphoid-enteritidis group:

See *Salmonella*

Parrot fever:

See Psittacosis

Parrots:

Culture of *P. morganii* isolated from (COLEMAN, *J. Lab. and Clin. Med.*, 1931, **16**, 396; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1930, no. **1**, 4; *Ann. Rep.*, 1930, **51**, 69) **VI**

See also Psittacosis

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Cultures resembling *Past. lepi-septica* from rabbits under immunization with pneumococci (SICKLES, G. M., and SHAW, *Ann. Rep.*, 1940, p.8)

Pasteurella pseudotuberculosis:

Microorganism resembling *Past. pseudotuberculosis* and *Actinobacillus lignieresii*, identified as new species, *Bact. enterocoliticum* (SCHLEIFSTEIN and COLEMAN, N. Y. *State J. Med.*, 1939, **39**, 1749; *Health News*, 1940, p.22; *Ann. Rep.*, 1939, p.45; 1940, p.50; 1941, p.60; 1943, p.56) **X**

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Comments on the trial of the suit against the Lederle Antitoxin Laboratories for violation of patents on scarlet fever toxin and antitoxin (WADSWORTH, *Ann. Rep.*, 1930, **51**, 48)

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(GILBERT, *Ann. Rep.*, 1933, **54**, 77)

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In treatment of infectious diseases (WADSWORTH. Nelson new loose-leaf medicine, W. W. Herrick, ed.-in-chief. N. Y., Nelson, 1944, 1, 30Y)

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As indication of pasteurization (GILCREAS and DAVIS, Internat. Assoc. Milk Sanit. *Ann. Proc.*, 1936, **25**, 15; N. Y. State Assoc. Dairy and Milk Inspectors. *Ann. Rep.*, 1936, **10**, 73; *J. Bact. (Soc.*

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In examination of cream separated from pasteurized milk (GILCREAS, *Ann. Rep.*, 1938, p.47; 1939, p. 63)

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Value as indicator of pasteurization (GILCREAS, *Amer. J. Pub. Health*, 1939, **29**, 158) **IX**

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mentary properties of blood (WADSWORTH, MALTANER, F., and MALTANER, E. J., *J. Immunol.*, 1936, **30**, 417; *Ibid.*, (*Soc. Proc.*), 1934, **26**, 333, 339; *Ann. Rep.*, 1933, **54**, 52; 1934, p.22; 1935, p.15) **VIII**

—, — — of purified (WADSWORTH, MALTANER, E. J., and MALTANER, F., *J. Immunol.*, 1935, **28**, 183; *Ibid.*, (*Soc. Proc.*), 1934, **26**, 332; *Ann. Rep.*, 1934, p.20) **VIII**

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— — —, — of alcohol-ether extract (HYMAN, *J. Immunol.*, 1938, **35**, 71) **IX**

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See also Cardiolipin; Cephalin; Lecithin; Lipids

Phospholipids:

See Phosphatides

Phosphorus:

Determination in blood plasma of normal chicks and those deficient in vitamin K (MALTANER, F., and THOMPSON, *Arch. Biochem.*, 1943, **2**, 49) **XI**

Distribution in serum during immunization with diphtheria toxin (BERTHELSEN and MURDICK, *J. Immunol.*, 1931, **21**, 69; *Ann. Rep.*, 1930, **51**, 83) **VI**

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Solutions as standards in hydrogen-ion work (WOOD and MURDICK, *J. Amer. Chem. Soc.*, 1922, **44**, 2008)

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Spectroscopic study, ultraviolet absorption spectrum curve (CROWE,

Phthiocol—Continued*J. Biol. Chem.*, 1936, **115**, 479;*Ann. Rep.*, 1936, p.19) **VIII**

See also Spectroscopy

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Pipes:

See Water pipes

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—, — —, production of an active enzyme by soil microorganism in the absence of pneumococcus, type-8, carbohydrate (SICKLES, G. M., and SHAW, *Ann. Rep.*, 1943, p.12)

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— — —, type 1, attempt to improve yield by lysing culture with Duponol (*Ann. Rep.*, 1941, p.22)

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See also Antipneumococcus sera; Media; Pneumonia

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—, — of type 1 (WADSWORTH, *Seuchenbekämpfung*, 1930, **7**, 22) **V**

— with horse and rabbit antisera (LYALL, *Amer. J. Pub. Health*, 1941, **31**, 167) **X**

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Carriers, search for, in an outbreak (McCLURE and LANGMUIR, *Amer. J. Hyg.*, 1942, **35**, 285; *Ann. Rep.*, 1941, p.56) **X**

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—, method for determining presence of virus in (McCLURE, *Science*, 1941, **93**, 118) **X**

—, wetting agent used in preparing stools for monkey inoculation (McCLURE, *J. Bact. (Soc. Proc.)*, 1941, **41**, 268; *Ann. Rep.*, 1940, p.46) **X**

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—Carbohydrates; Sugars

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Fluorescence of pigment elaborated by *C. diphtheriae* (CROWE, *Proc. Soc. Exp. Biol. and Med.*, 1937, **37**, 215) **IX**

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— —, of toxins and porphyrins produced by diphtheria bacillus (WHEELER and CROWE, *J. Bact.*, 1936, **31**, 519; *Ibid.*, (*Soc. Proc.*), 1936, **31**, 73; *Ann. Rep.*, 1935, p.17, 18) **VIII**

— — — and porphyrins in diphtheria culture filtrates (WADSWORTH, CROWE, and SMITH, *Brit.*

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—, —, serologic and immunologic studies of meningococcus strains associated with growth of cultures on immune-serum-agar plates (KIRKBRIDE and COHEN, *Amer. J. Hyg.*, 1934, **20**, 444; *J. Bact. (Soc. Proc.)*, 1934, **27**, 85) **VIII**

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—, —, —, oversensitive, comparison with other tests at Washington Serology Conference (BROWN, R. F., *Vener. Dis. Inf.*,

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—, —, standardization of serologic tests; associate referee report for 1937 (MALTANER, E. J., *Amer. J. Pub. Health (supp. Year Book)*, 1938, **28**, 114) **IX**

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Precipitative activity:

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Antimeningococcus serum, titer of antibacterial and antifiltrate horse sera (SICKLES, G. M., and RICE, *J. Immunol.*, 1938, **35**, 427; *Ann. Rep.*, 1937, p.8) **IX**

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—, —, — rabbits, maximally reactive proportions of antigens and antiserum in precipitation and complement fixation (RICE, *J. Immunol.*, 1943, **46**, 427; *Ann. Rep.*, 1942, p.10; 1943, p.10) **XI**

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—, reactivity with amino acids under conditions used for preparation of diphtheria toxoid (WADSWORTH and PANGBORN, *J. Biol. Chem.*, 1936, **116**, 423; *Ann. Rep.*, 1935, p.23) **VIII**

Glycerol for preservation of anti-sheep amboceptor (LANGWORTHY and WEMPLE, *J. Lab. and Clin. Med.*, 1925, **10**, 864) **IV**

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'Merthiolate,' effect on antigenic potency of purified diphtheria toxoids (SICKLES, G. R., *J. Bact. (Soc. Proc.)*, 1937, **33**, 644)

—, for study of inhibitory action in sterility tests of biologic products (MURDICK, *Ann. Rep.*, 1932, **53**, 91)

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Sodium hypochlorite for preservation of milk (DAVIS, *Amer. J. Pub. Health*, 1930, **20**, 308)

See also Names of specific preservatives, e.g. Glycerol

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- Experimental studies, effect of pregnancy on hemolytic and agglutinative activity of blood

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- — — — —, variation in susceptibility of skin to streptococcus toxin during pregnancy (TORRANCE, *Amer. J. Obst. and Gynec.*, 1935, 29, 434) **VIII**
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- Immunization, abnormalities in the clotting of blood during prolonged immunization with the pneumococcus (*Ann. Rep.*, 1939, p.11)

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— — — — outside of New York City; second report (MAILLARD and HAZEN, *N. Y. State J. Med.*, 1944, **44**, 73) **XI**

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Action upon bacteria (KOZLOWSKI, *J. Bact.*, 1928, 16, 203) V

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Soil microorganisms—Continued

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- , —, — from raw milk with glycerol preservative (GILBERT and CLARK, M. E., 1933, 23, 720; *Ann. Rep.*, 1931, 52, 62) **VII**
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- , — — ricinoleated vaccine on animals (KOZLOWSKI, *J. Immunol.*, 1928, 15, 115; *Ibid.*, 1929, 16, 357) **V**
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- , — cases of epidemic sore throat, scarlet fever, and erysipelas (WHEELER, *J. Prev. Med.*, 1930, 4, 1; *Ann. Rep.*, 1929, 50, 51) **V**
- , — human infections, toxigenic properties (WADSWORTH and COFFEY, *J. Immunol.*, 1935, 29, 505; *Ibid.*, (*Soc. Proc.*), 1935, 29, 59) **VIII**
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- , — — implanted intraperitoneally into rabbits, effect of sulfanilamide injected subcutaneously (HARRIS and MILLER, *J. Bact.*, 1941, 41, 495; *Ibid.*, (*Soc. Proc.*), 1940, 39, 48; *Ann. Rep.*, 1940, p.10) **X**

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- , — — —, laboratory study of epidemic (COLEMAN and WHEELER, *J. Lab. and Clin. Med.*, 1926, **11**, 1180) **IV**
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- , —, dye solution concentrated at site of inflammatory reaction induced by (TORRANCE, *Ann. Rep.*, 1933, **54**, 70)
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In treatment of streptococcus bacteremia in horse during immunization (HENDRY, *J. Infect. Dis.*,

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— — — stools for monkey inoculation (McCLURE, *J. Bact. (Soc. Proc.)*, 1941, **41**, 268; *Ann. Rep.*, 1940, p.46) **X**

Identification of pneumococci by solubility tests (HARRIS and McCLURE, *J. Lab. and Clin. Med.*, 1942, **27**, 1591; N. Y. State Assoc. Pub. Health Labs. *Proc.*, 1940, no. 2, 29; *Ann. Rep.*, 1940, p.47) **X**

Use in determination of presence of virus of poliomyelitis in stools

Wetting agents—Continued

(McCLURE, *Science*, 1941, **93**, 118) **X**

See also Detergents; Duponol

Whooping cough:

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Widal reaction:

See Typhoid fever

World war I:

Activities of the Division of Laboratories and Research connected with the war (*Ann. Rep.*, 1917, **38**, 268; 1918, **39**, 211)

Laboratory service in epidemic among troops (WADSWORTH, *N. Y. State J. Med.*, 1917, **17**, 506; *Health News*, 1917, p.239; *Ann. Rep.*, 1916, **37**, 115) **I**, 1914–1919

World war II:

Appointment by Secretary of War of three members of the laboratory staff as consultants on the Commission on Meningococcus Meningitis; and the Commission on Hemolytic Streptococcus Infections (*Ann. Rep.*, 1941, p.6; 1942, p.6, 28)

— of member of the laboratory staff as State Gas Consultant (*Ann. Rep.*, 1942, p.6, 72)

Army maneuvers and the Selective Service Act increase demands on laboratory service (*Ann. Rep.*, 1940, p.26, 38; 1941, p.50, 80; 1942, p.46, 50, 66, 79; 1943, p.6, 47, 72, 86, 87)

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NEW YORK
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Commissioner

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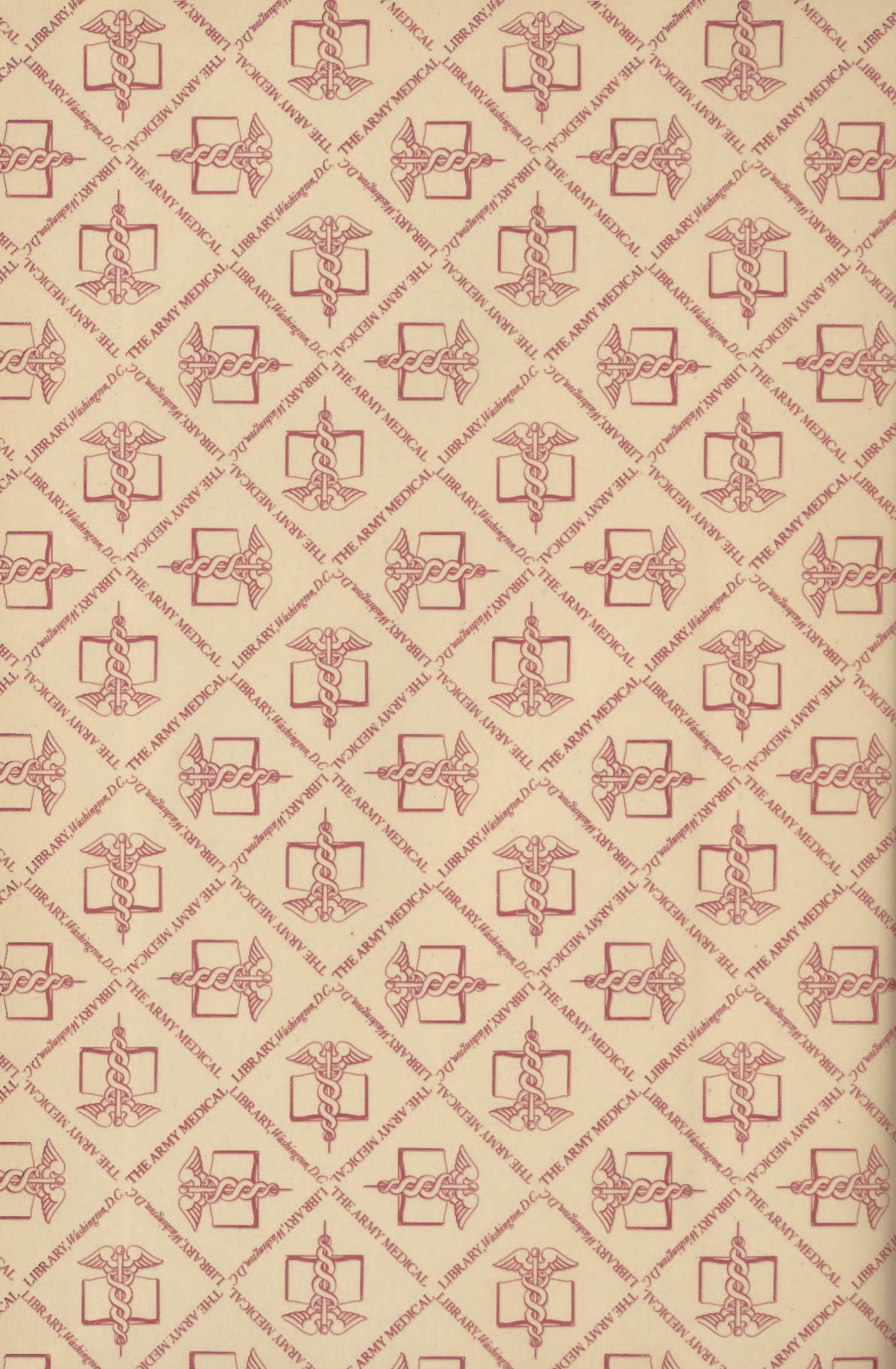
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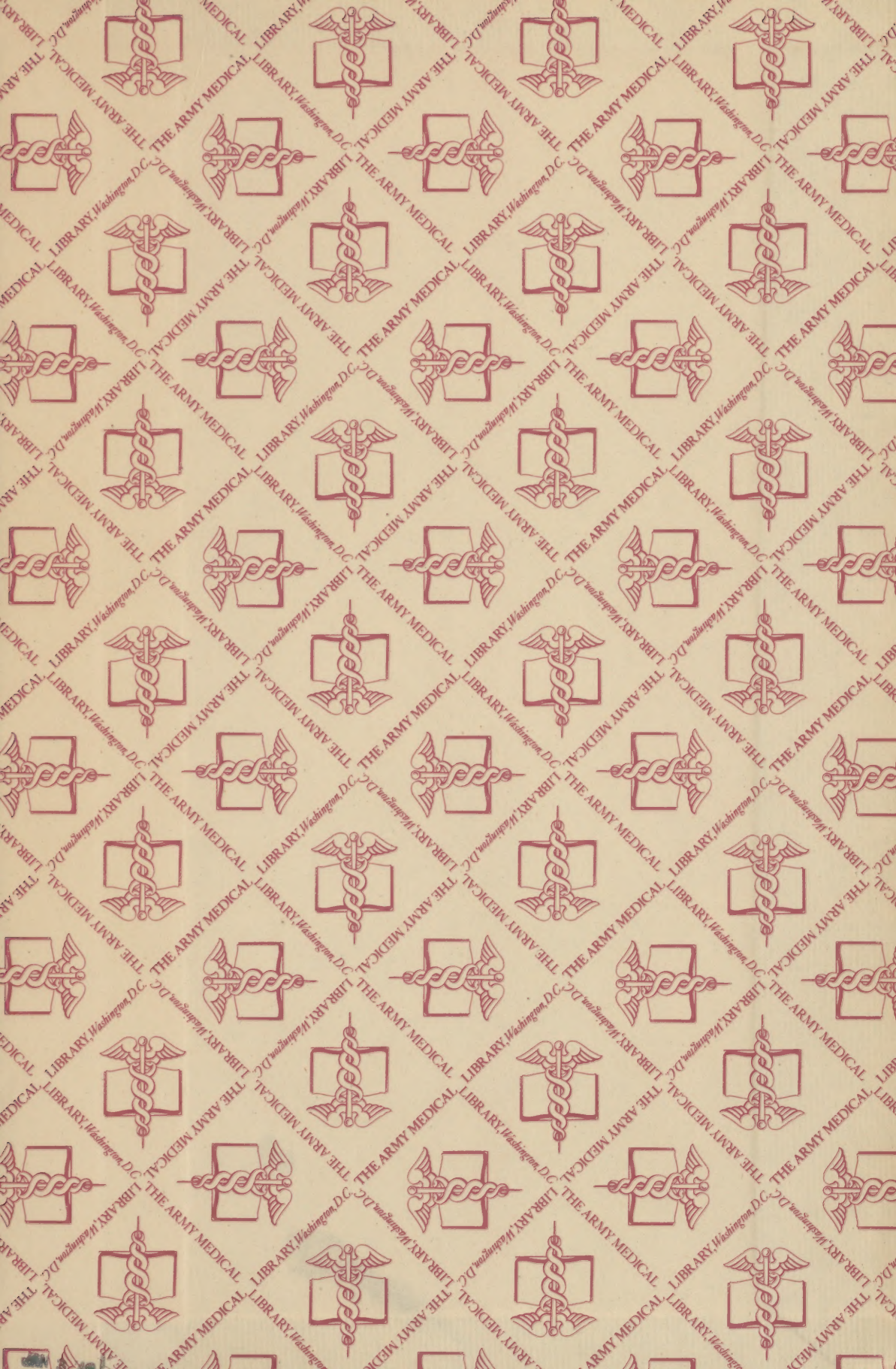
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